

(d) applying said crude IgY on "DEAE-Sephadex A50" column and eluting with phosphate buffer containing 0.03-0.1M of NaCl to obtain active eluates; and

(e) applying said active eluates on Sephadex G200 column and eluting with phosphate buffer containing 0.05-0.2M of NaCl.

14. The preparation method, as recited in claim 13, wherein the step (a) comprises the steps of:

(a-1) separately cultivating said streptococcus mutans type c and type d in a culture medium for 2 to 3 days;

(a-2) collecting bacteria by centrifugation;

(a-3) washing said bacteria 4 to 6 times with 0.05-0.2M of phosphate buffered saline, pH 6-7, and heating at 50-60°C for 25 to 35 minutes;

(a-4) mixing said streptococcus mutans type c and type d in said ratio of 1-2:1; and

(a-5) adding Freund's adjuvant equal to total volume of said streptococcus mutans type c and type d with high speed homogenized.

15. The preparation method, as recited in claim 13, wherein the step (b) comprises the steps of:

(b-1) immunizing said hens by three hypodermic injections of 1.0ml ( $1 \times 10^9$  /ml) of said streptococcus mutans antigens each time at two weeks intervals;

(b-2) collecting and sterilizing said eggs from 20<sup>th</sup> day after said first hypodermic injection; and

(b-3) taking out yolks from said eggs by sieve.

16. The preparation method, as recited in claim 14, wherein the step (b) comprises the steps of:

(b-1) immunizing said hens by three hypodermic injections of 1.0ml ( $1 \times 10^9$  /ml) of said streptococcus mutans antigens each time at two weeks intervals;